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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
(Case No. 99,097)

In the Application of:

John W. Elling and Susan I. Bassett

Serial No.: 09/281,990

Filed: March 29, 1999

For: Method and System for Artificial  
Intelligence Directed Lead Discovery  
In High Throughput Screening Data

Examiner: M. Sheinberg

Group Art Unit: 1631

Commissioner for Patents  
Washington, D.C. 20231

**RESPONSE TO OFFICE ACTION MAILED JULY 16, 2001**

Dear Sir:

In response to the Office Action mailed July 16, 2001, and with a one month extension of time, Applicant submits the following amendments and remarks.

**In the claims:**

Please cancel claims 22-38, 63-66 and 68 without prejudice, and add in their place the following new claims 69-90:

69. (New) A computerized method of identifying a molecular feature set likely to defines respectively for each molecule a molecular structure and an activity characteristic, the method comprising: